AUTHOR INDEX

VOLUME 59

Abe, Mitsuko, 103
Adachi, Akio, 284
Alatossava, Tapani, 551
Alegre, John N., 669
Allaway, Graham P., 768
Andrisani, Ourania, 420
Araki, Masatake, 176
Armentrout, Marty A., 216
Arnheiter, Heinz, 751
Asselin, Claude, 655
Auger, Denise, 185

Babinet, Charles, 761
Babiuk, Lorne A., 401
Baczko, Knut, 472
Baksi, Krishna, 628
Balboni, P. G., 500
Baluda, Marcel A., 267
Barbanti-Brodano, G., 500
Bartlett, Gerald L., 369
Bassel-Duby, Rhonda, 90
Bassiri, Mansour, 525
Bastin, Marcel, 655
Baumbach, William R., 276
Benko, Donna Mia, 703
Ben-Porat, Tamar, 308, 318
Berk, Arnold J., 14
Bernards, R., 684
Beyreuther, Konrad, 50
Bikel, Ilan, 692
Bilello, John A., 234
Billeter, Martin, 472
Bishop, J. Michael, 172
Bister, Klaus, 341
Blair, Phyllis B., 159
Blöcker, Helmut, 341
Boeyé, Albert, 479
Bos, J. L., 684
Boyce-Jacino, Mike, 669
Bricout, Fernand, 510
Britt, William J., 185
Bro-Jørgensen, K., 428
Brookes, Sharon, 535
Bryan, Theodore, 545
Buchmeier, M. J., 463
Budka, Herbert, 472
Bukowski, Jack F., 735
Burness, Alfred T. H., 768
Butel, Janet S., 518

Carp, Richard I., 676
Cattaneo, Roberto, 472
Chalifour, Lorraine E., 619
Chambers, Judith A., 354
Chen, Pei-Jer, 354
Chen, Steve S.-L., 210
Cheng, Seng H., 82
Chou, Joany, 605
Chytil, Anna, 31
Clark, Thomas, 728
Cole, Michael D., 276
Colledge, William H., 384
Collins, Peter L., 646
Corallini, A., 500
Cremisi, Chantal, 761
Cywinski, Anita, 354

Dalziel, R. G., 463
Dambaugh, Timothy, 453
Darnell, J. E., Jr., 112
Davis, Mark M., 434
Davis, Nancy L., 751
Deiss, Louis P., 605
DeLange, A. M., 249
DePamphilis, Melvin L., 619
Dickson, Clive, 535
Diringer, Heino, 676
Donoghue, Daniel J., 292
Dunwiddie, Christopher T., 669
Dybvig, Kevin, 584

Eggerding, F., 112
Endres, Michael J., 1
Engers, Howard D., 8
Enquist, Lynn W., 635
Ewalt, Larry C., 514

Falck-Pederson, E., 112
Faras, Anthony J., 669
Feinberg, Mark B., 434
Ferguson, Blair, 420
Fields, Bernard N., 90
Fisher, Christopher M., 31
Folks, Thomas, 284
Frank, Ronald, 341
Fraser, Nigel W., 764
Frenkel, Niza, 605
Fried, Victor A., 224
Fujiwara, Kosaku, 168
Furuno, Akemi, 531

Gannon, Julian V., 444
Garbarg-Chenon, Antoine, 510
Garber, Theodore, 98
Garcia, Pablo D., 731
Gaynor, Richard B., 14
Gendelman, Howard E., 284
Gibson, Wade, 703, 714
Girard, Marc, 490
Glorioso, J. C., 142
Goff, Stephen P., 328, 743
Goh, Wei Chun, 181
Goldbach, Rob, 50
Gonzalez-Scarano, Francisco, 1
Gresser, Ion, 728

Hadlow, William J., 514
Hampe, Annie, 224
Hannink, Mark, 292
Harper, Linda, 308, 318
Harvey, Robert, 384
Haseltine, William A., 181, 743
Hay, John, 660
Hayashi, Ryoji, 103
Hennessy, Kevin, 453
Highlander, S. L., 142
Hirai, Kanji, 154
Hirt, Bernhard, 8, 564
Ho, David D., 181
Hoffman, Paul M., 234
Holland, T. C., 142
Holmberg, Charles, 98
Horvath, Jozsef, 189
Houweling, A., 684
Howett, Mary K., 369
Huang, Alice S., 210
Hunter, Tony, 73

Ibanez, Carlos E., 267
Iijima, Shinji, 556
Iizuka, Hideaki, 242
Ikuta, Kazuyoshi, 154
Imamura, Takayuki, 176
Isfort, R. J., 411
Itin, Aluva, 301
Ito, Shin-ichi, 103
Iwamoto, S., 112
Iwasaki, Yuzo, 242

Jansen, Hans W., 341
Janssen, Robert S., 1
Jat, Parmjit S., 746
Jenkins, Frank J., 494
Jochemsen, A. G., 684
Jones, Nicholas, 420
Jongeneel, C. Victor, 8, 564

Kanda, Tadahito, 531
Kascsak, Richard J., 676
Kato, Shiro, 154
Katz, Richard A., 163
Kaye, Kenneth M., 90
Kean, Katherine M., 490
Keath, Elizabeth J., 276
Kennedy-Stoskopf, Suzanne, 37
Keshet, Eli, 301
Kieff, Elliott, 453
Kiessling, R., 428
Kimoto, Mitsuaki, 103
Kimsey, Paul B., 8
Kinchington, Paul R., 660
Knepper, Janice E., 518
Knupp, C., 59
Koenig, Scott, 284
Konno, Hidehiko, 242
Kopecka, Helena, 490
Kozak, Christine, 535
Kreider, John W., 369
Krippl, Bernd, 420
Kudo, Hiroko, 242
Kung, H. J., 411

Lampert, P. W., 463
Lane, David P., 444
Lasky, Laurence A., 506
Leider, Jason M., 377
LeMaster, David M., 759
Levine, Arnold J., 574
Levine, M., 142
Liebert, Uwe G., 472
Liegler, Teri J., 159
Lill, Nancy L., 369
Lin, Jung-Chung, 522
Lipsick, Joseph S., 267
Livingston, David M., 692
Lodmell, Donald L., 514
Look, A. Thomas, 224

Macino, G., 500
Manger, Ron, 66
Maniloff, Jack, 584
Marchioli, Carmine C., 216
Markham, Alexander F., 384
Markland, William, 82, 384
Marlin, S. D., 142
Martin, Malcolm A., 284, 545
Mata-Gilsinger, Mireille, 551
Matsubara, Kenichi, 176
McCarley, Deborah J., 755
McFadden, G., 249
McFarland, Vivian, 628
McMaster, Gary K., 564
Medina, Daniel, 518
Merz, David C., 392
Merz, Patricia A., 676
Milanesi, G., 500
Miyanohara, Atsushi, 176
Mora, Peter T., 628
Moran, Patricia A., 506
Mortel, Rodrigue, 369
Moscona, Anne, 377
Moss, Bernard, 506
Moss, Jill, 728
Mottet, Genevieve, 132
Muggeridge, Martin I., 764
Murphy, Cheryl Isaac, 692

Nakajima, Kazuhiro, 154
Nakanaga, Kazue, 168
Narayan, Opendra, 37
Nathanson, Neal, 1
Negrini, M., 500
Nicolas, Jean-Claude, 510
Nishimune, Takahiro, 103
Nuss, Donald L., 195

O'Brien, Stephen J., 545
Ohtomo, Nobuya, 176
Oldstone, Michael B. A., 127, 363
Oostra, Ben A., 82, 384
Ostrove, Jeffrey M., 660

Pagano, Joseph S., 522
Pagnani, M., 500
Palese, Peter, 377
Palkonyay, Laszlo, 189
Pan, Wayne T., 377
Parrott, Catherine L., 628
Parsons, J. Thomas, 755
Parsons, Sarah J., 755
Parvin, Jeffrey D., 377
Patschinsky, Tilo, 73, 341
Peters, Gordon, 535
Peterson, Andrew J., 195
Petrovskis, Erik A., 216
Pfau, Charles, 728
Pisa, P., 428
Pitts, Olin M., 234
Placzek, Marysia, 535
Ponticelli, Alfred, 14
Portner, Allen, 132
Post, Leonard E., 216
Privalsky, Martin L., 525

Quintrell, Nancy, 172

Rabson, Arnold, 284
Rabson, Arnold B., 545
Rasheed, Suraiya, 66
Ratiarson, Annick, 655
Raymond, Victoria W., 755
Reddy, M., 249
Reinsch, S. S., 45
Remenick, James, 660
Reschiglian, P., 500
Resnick, Robert, 669

Rettenmier, Carl W., 224
Rezelman, Geertje, 50
Rhoades, Marc, 203
Rice, Nancy R., 120
Rickinson, Alan, 453
Ritzenthaler, Paul, 551
Riviere, Yves, 363
Robakis, Nickolaos K., 676
Robbins, Alan K., 635
Robinson, H. L., 45
Roby, Clinton, 714
Rohrschneider, Larry, 66
Roizman, Bernard, 494
Rose, John K., 486
Rosen, Craig, 181
Rosenberg, Martin, 420
Roth, Monica J., 328
Roussel, Martine F., 224
Roux, Laurent, 132
Rubenstein, Richard, 676
Rutter, William J., 731
Ruyechan, William T., 31, 660

Sahli, Roland, 564
Sauer, Monica K., 292
Scherneck, S., 500
Schonberg, Steven, 731
Schrier, Rachel D., 127
Scott, Martin L., 434
Scraba, D., 249
Sedlacek, Thomas V., 369
Sefton, Bartholomew M., 73
Shank, P. R., 45
Sharp, Phillip A., 746
Sharp, R. Mark, 98
Shaul, Yosef, 731
Sherr, Charles J., 224
Simek, Stephanie L., 120
Sithole, I., 411
Skalka, Anna Marie, 163
Sladek, Todd L., 584
Smith, Alan E., 82, 384
Smith, Rosalind, 535
Sodroski, Joseph, 181, 743
Soong, Meei-Meei, 556
Soussi, Thierry, 740
Spector, Deborah H., 591
Spriggs, Dale R., 90
Spriggs, Melanie K., 646
Steele, Paul E., 545
Stephens, Robert M., 120
Straus, Steven E., 660
Stubblefield, Elton, 172
Sugawara, Keisin, 176
Symonds, Geoff, 172

Talbot, P. J., 463
Tamashiro, Joyce C., 591
Tan, Tse-Hua, 574
Tanese, Naoko, 328, 743
Taylor, John M., 354
Templeton, Joe W., 98
ter Meulen, Volker, 472
Terry, Robert W., 163
Thomas, Adri A. M., 479
Thomas, Christopher Y., 23
Thomsen, A. Randrup, 428
Timmins, James G., 216
Trautwetter, Annie, 551
Tsukamoto, Ann S., 14
Tyler, Kenneth L., 90
Tzeng, E., 59

Ueda, Shigeharu, 154
Upton, C., 249

van der Eb, A. J., 684
van Drunen Littel-van den Hurk, Sylvia, 401
van Kranen, H. J., 684
Vass-Marengo, Judit, 655
Velicer, L. F., 411
Vrijsen, Raf, 479

Walker, Mary H., 224
Wallis, John, 574
Wang, Fred, 453
Wang, Lu-Hai, 556
Wassarman, Paul M., 619
Watanabe, Sumie, 260
Watson, Roger J., 635
Waxham, M. Neal, 392
Weber, Joseph, 189
Wellink, Joan, 50
Welsh, Raymond M., 735
Wertz, Gail W., 751
Westphal, Heiner, 420
Whealy, Mary E., 635
Wheeler, Esther F., 224
Wiedbrauk, Danny L., 514
Willey, Ronald, 284
Wirak, Dana O., 619
Wisniewski, Henryk M., 676
Wolinsky, Jerry S., 392
Wong, P. K. Y., 59
Woodgett, Caroline, 486
Woodland, Ellen, 453
Woodrow, David, 728
Wu, Carol Ann, 308, 318
Wychowski, Czeslaw, 490

Yamamoto, Teiji, 242
Yamanouchi, Kazuya, 168
Yancey, Robert J., Jr., 216
Yewdell, Jon W., 444
Yoshiike, Kunito, 260, 531
Yuen, P. H., 59

Zaino, Richard J., 369
Zarling, Joyce M., 506

SUBJECT INDEX
VOLUME 59

Abelson murine leukemia virus
  transformation of T-lymphoid cells, 434
Acholeplasma laidlawii
  mycoplasma virus L2
    isolation of insertion variants and miniviruses, 584
Acquired immunodeficiency syndrome-associated retrovirus
  transfected human and nonhuman cells
    production with infectious molecular clone, 284
Adenoviruses
  E1A protein product
    expression in *Escherichia coli*, 420
  group C DNA sequences
    persistence in human lymphoid cells, 189
  transcription termination regions
    mapping, 112
Adenovirus, group C
  DNA sequences
    persistence in human lymphoid cells, 189
Adenovirus type 2
  early region 1A proteins
    major phosphorylation site, 14
Adenovirus types 5 and 12
  activity of E1A regions
    transformation with Ha-*ras* oncogene, 684
Aleutian disease virus
  interferon response in mink, 514
Arenaviruses
  lymphocytic choriomeningitis virus
    genetic reassortants and interferon, 363
    pathogenesis, 363
  Pichinde virus infection in mice
    interferon-mediated liver necrosis, 728
    pathogenesis, 728
Attachment sites
  encephalomyocarditis virus
    human erythrocytes, 768
Avian erythroblastosis virus
  chromosomal localization of transduced proto-oncogenes, 172
  erbB coding region
    mutagenesis, 525
    oncogenic transformation, 525
Avian leukosis virus
  endogenous viruses in *ev*$^-$ chickens
    cloning and characterization, 669
  sequence of osteopetrosis-inducing region, 45
Avian myeloblastosis virus
  v-*myb* molecular clones
    expression, 267
Avian sarcoma virus
  conserved *cis*-acting sequence
    packaging requirement, 163

Bacillus aneurinolyticus bacteriophage ϕBA1
  characterization of bacteriocinlike killing activity, 103
Bacteriophages
  bacteriophage T4
    nucleotide sequence of thioredoxin gene, 759
  bacteriophage T5
    analysis of single-site mutants, 203
    interruption-deficient mutants, 203
  B. aneurinolyticus bacteriophage ϕBA1
    characterization of bacteriocinlike killing activity, 103
  L. lactis bacteriophage LL-H
    characterization, 551
    restriction mapping, 551
  mycoplasma virus L2
    isolation of insertion variants and miniviruses, 584
BK virus
  transcriptional control region
    characterization, 260
    evolutionary changes in deletion mutant, 260
  variant IR from human tumor
    effect on small-t antigen expression, 500
    molecular and biological properties, 500
Bovine herpesvirus 1
  glycoproteins
    analysis by monoclonal antibodies, 401
    proposed nomenclature system, 401
    synthesis and processing, 401
Bunyaviruses
  genetics of reassortment
    virulence of La Crosse virus, 1

cDNA expression
  poliovirus type 1 plasmids
    replication in simian cells, 490
Chickens
  endogenous retroviral family
    cloning and characterization, 669
Coronaviruses
  murine hepatitis virus type 4 glycoprotein E2 variants
    effect on neurovirulence, 463
Cowpea mosaic virus
  bottom-component RNA-encoded polyprotein
    proteolytic processing sites, 50
Cytomegaloviruses
  simian cytomegalovirus glycoproteins
    lectin-binding properties, 703
    sensitivities to glycosidases, 703
  virions, noninfectious enveloped particles, and dense bodies of human cytomegalovirus
    characterization of phosphoproteins, 714
    protein kinase activity, 714
Cytomegalovirus, human
  cytotoxic T-lymphocyte activity
    antigenic stimulation and immunosuppression, 127
  protein kinase activity
    detection with murine monoclonal antibodies, 185
  strain AD169 *a* sequence
    terminal structure and heterogeneity, 591
Cytotoxic T lymphocytes
  cells from virus-infected or interferon-treated mice
    susceptibility, 735
  human cytomegalovirus
    antigenic stimulation and immunosuppression, 127

DNA
  bacteriophage T5
    site-specific single-chain interruption, 203
  herpes simplex virus type 1
    chromosomal organization during nervous system infection, 764
DNA-binding properties
  simian virus 40 capsid proteins
    characterization, 740
DNA-binding protein
  herpes simplex virus
    characterization of temperature-sensitive strain, 31
DNA cleavage-packaging
  herpes simplex virus
    mechanism of, 605
DNA fragments
  varicella-zoster virus glycoprotein gene homology to herpes simplex virus type 1 glycoprotein C, 660
DNA hybridization
  group C adenovirus
    sequences in human lymphoid cells, 189
  mouse mammary tumor virus
    detection of exogenous sequences in lymphoid cells, 159
  retroviruslike elements in quail genome
    characterization, 354
DNA integration
  hepatitis B virus
    chromosome-specific satellite sequences, 731
DNA sequences
  novel retroviruslike family in mice
    isolation and characterization, 301
DNA transfer
  simian virus 40
    T-antigen-negative tumor cells, 628

Ecotropic AKR SL3-3 murine leukemia virus
  in vivo formation of envelope gene recombinants, 23
Ecotropic NB-tropic murine leukemia virus
  characterization of temperature-sensitive isolate, 234
E26 leukemia virus
  chromosomal localization of transduced proto-oncogenes, 172
Encephalomyocarditis virus
  glycophorin A receptor
    attchment site on human erythrocytes, 768
Endogenous proviruses
  mouse mammary tumor virus
    restriction maps, 535
    segregation patterns, 535
Endogenous retroviruses
  sequences in the *ev*$^-$ chicken
    cloning and characterization, 669
Endogenous retroviruses, human
  cloned full-length sequences
    amplification and chromosomal dispersion, 545
    characterization, 545
Envelope gene recombinants

ecotropic AKR SL3-3 murine leukemia virus
in vivo recombination, 23
Epstein-Barr virus
dual antibody-probing technique
detection of different antigens, 522
polypeptide differentiation from herpes simplex virus infection, 522
nuclear protein 2 expression, 453
Exogenous mouse mammary tumor virus
detection in lymphoid cells, 159

Feline leukemia virus
v-*fms* oncogene product
amino-terminal domain, 224
synthesis of transforming glycoprotein, 224
Feline sarcoma virus
plasma membrane and detergent-insoluble matrix
location of *fgr* gene product, 66
Feline sarcoma virus strain McDonough
v-*fms* oncogene product
amino-terminal domain, 224
synthesis of transforming glycoprotein, 224

Glycophorin
encephalomyocarditis virus receptors
attachment site on human erythrocytes, 768

Hepatitis B virus
chromosome-specific satellite sequences
DNA integration, 731
expression of core antigen gene in *S. cerevisiae*
polypeptide synthesis, 176
Herpes simplex virus
characterization of temperature-sensitive DNA-binding protein, 31
dual antibody-probing technique
detection of different antigens, 522
polypeptide differentiation from Epstein-Barr virus infection, 522
functional domains within *a* sequence
DNA cleavage-packaging mechanism, 605
sequences, 605
monoclonal antibody-resistant mutants
antigenic variation in glycoprotein B, 142
retrograde axoplasmic transport
exadication of virus in ganglionic cells, 242
Herpes simplex virus type 1
glycoprotein D
expression by recombinant vaccinia virus, 506
infection of the mouse central nervous system
chromosomal organization of viral genome, 764
recombinants with different isomeric arrangements
isolation and replication, 494
Herpesviruses
Epstein-Barr and herpes simplex viruses
detection of different antigens, 522
dual antibody-probing technique, 522
Epstein-Barr virus
nuclear protein 2 expression, 453
functional domains within *a* sequence
DNA cleavage-packaging mechanism, 605
glycoproteins of bovine herpesvirus 1
analysis by monoclonal antibodies, 401
proposed nomenclature system, 401
synthesis and processing, 401
herpes simplex virus type 1
isolation and replication, 494
recombinants with different isomeric arrangements, 494
human cytomegalovirus
antigenic stimulation and immunosuppression, 127
cytotoxic T-lymphocyte activity, 127
virion-associated protein with kinase activity, 185
human cytomegalovirus strain AD169 *a* sequence
terminal structure and heterogeneity, 591
Marek's disease virus
identification of virus-specific polypeptides with monoclonal antibodies, 154
Marek's disease virus B antigen
molecular identification and characterization, 411
pseudorabies virus
cis functions, 318
defective interfering particles, 308
nonessential glycoprotein gene, 635
replication and cleavage-encapsidation, 308, 318
pseudorabies virus glycoprotein gp50
DNA sequence, 216
N-linked glycosylation, 216
varicella-zoster virus glycoprotein gene homology to herpes simplex virus type 1 glycoprotein C, 660
HTLV-III/LAV
identification of *trans* activator *tat*III protein, 181
reverse transcriptase production
expression with bacterial vector, 743
Human adenoviruses
early region 1A proteins
major phosphorylation site, 14
Human adenovirus type 12
E1A protein product
expression in *Escherichia coli*, 420
Human cytomegalovirus
protein kinase activity
detection with murine monoclonal antibodies, 185
strain AD169 *a* sequence
terminal structure and heterogeneity, 591
virions, noninfectious enveloped particles, and dense bodies
characterization of phosphoproteins, 714
protein kinase activity, 714
Human papillomavirus type 11
condylomata acuminata extract
transformation of human skin, 369
Human parainfluenza virus type 3
analysis of structural proteins
characterization of mRNA, 646
determination of intergenic sequences, 646
genetic map, 646
polypeptide coding assignments, 646
Human T-cell clones
herpes simplex virus-specific clones
expression of glycoprotein D in vaccinia virus recombinant, 506

Immunoreactivity changes
Sendai virus
HN and F_0 glycoproteins, 132
Influenza A virus
measurement of mutation rates
comparison with poliovirus type 1, 377
Insect vectors
wound tumor virus
regulation of expression, 195
Interferon
Aleutian disease virus
response in normal and infected mink, 514
cells from virus-infected or interferon-treated mice
susceptibility to cytotoxic T lymphocytes, 735
lymphocytic choriomeningitis virus
genetic reassortants, 363
pathogenesis, 363
Pichinde virus infection in mice
pathogenesis, 728

La Crosse virus
genetics of reassortment
polygenic control of virulence, 1
Lactobacillus lactis bacteriophage LL-H
physical and genetic characterization, 551
Lentiviruses
visna virus neutralizing antibodies
mechanism of action and role in virus persistance, 37
Lymphocytic choriomeningitis virus
cells from virus-infected or interferon-treated mice
susceptibility to cytotoxic T lymphocytes, 735
genetic reassortants
pathogenesis, 363
role of interferon, 363
hemopoietic dysfunction
mechanisms, 428
natural killer cell activation, 428

Marek's disease herpesvirus
B antigen glycoprotein
molecular identification and characterization, 411
Marek's disease virus
radioimmunoprecipitation with monoclonal antibodies
identification of virus-specific polypeptides, 154
Measles virus
expression of defective genes
persistence in brain tissues, 472
Mice
BALB/c mammary gland development
mouse mammary tumor virus expression, 518
c-*myc* retrovirus
construction and characterization, 276
tumorigenesis, 276
minute virus of mice
pathogenicity of variant strains on T-cell function, 8

mouse hepatitis virus
protective effects of monoclonal antibodies, 168
novel retroviruslike family
isolation and characterization, 301
Pichinde virus infection
interferon-mediated liver necrosis, 728
pathogenesis, 728
Middle-T antigen
polyomavirus
membrane-binding domain mutagenesis, 82
Mill Hill 2 virus
chromosomal localization of transduced proto-oncogenes, 172
Minute virus of mice
splice junctions in mRNAs
sequence, 564
T-cell function
pathogenicity of variant strains, 8
Moloney murine leukemia virus
antisera against *E. coli* fusion proteins
analysis of *pol* gene products, 328
paralytogenic mutant of *ts*1
localization of neurovirulent determinants, 59
progressive neurodegenerative disease
characterization of temperature-sensitive isolate, 234
Monkey B-lymphotropic papovavirus
VP-1 gene mutations
growth in T-lymphoblastoid cells, 531
Monoclonal antibodies
herpes simplex virus
antigenic variation in glycoprotein B, 142
interaction with poliovirus
neutralization and aggregation, 479
Marek's disease virus serotypes
identification of virus-specific polypeptides, 154
mouse hepatitis virus
protective effects, 168
mumps virus
hemagglutinin-neuraminidase glycoprotein
detection of changes, 392
intracellular maturation, 392
murine hepatitis virus type 4 glycoprotein E2 variants
effect on neurovirulence, 463
p53 protein expression
comparison in human and murine T-cell lines, 444
Mouse hepatitis virus
nucleocapsid proteins and major envelope glycoproteins
protective effects of monoclonal antibodies, 168
Mouse mammary tumor virus
BALB/c mammary gland development
differential endogenous gene expression, 518
detection of exogenous sequences in lymphoid cells, 159
mRNA
minute virus of mice
sequence of splice junctions, 564
Mumps virus
hemagglutinin-neuraminidase glycoprotein
change detection with monoclonal antibodies, 392
intracellular maturation, 392
Murine hepatitis virus type 4
glycoprotein E2 alteration
effect on neurovirulence, 463
Mutation rates
influenza A and poliovirus type 1
measurement, 377
Mycoplasma virus L2
insertion variants and miniviruses
isolation, 584

Oncogene expression
Rous sarcoma virus mutants
action of *src*-specific monoclonal antibodies, 755
localization of conserved and nonconserved epitopes, 755
Oncogenes
avian *myc* alleles
structure and transforming function, 341
feline sarcoma virus
location of *fgr* gene product, 66
plasma membrane and detergent-insoluble matrix, 66
v-*myb* molecular clones
expression, 267
Oncogenic retroviruses
Rous sarcoma virus transformation-defective deletion mutant
c-*src* sequence transduction, 556
Oncogenic transformation
adenovirus types 5 and 12 E1A regions
activity with Ha-*ras* oncogene, 684
Osteopetrosis
avian leukosis virus
mapping of osteopetrosis-inducing variants, 45

Papovaviruses
BK virus-IR variant
effect on small-t antigen expression, 500
molecular and biological properties, 500
human BK virus
evolutionary changes in deletion mutant, 260
Papillomaviruses
human papillomavirus type 11
transformation of human skin, 369
Papovavirus, monkey B-lymphotropic
VP-1 gene mutation
growth in T-lymphoblastoid cells, 531
Paramyxoviruses
human parainfluenza virus type 3
genetic map, 646
intergenic sequences, 646
mRNAs, 646
polypeptide coding assignments, 646
Parvoviruses
Aleutian disease virus
interferon response in mink, 514
minute virus of mice
pathogenicity of variant strains on T-cell function, 8
sequence of mRNA splice junctions, 564
Pichinde virus
interferon-mediated liver necrosis
pathogenesis in C3HeB/Fej mice, 728
Plant viruses
activity of wound tumor virus
regulation of expression, 195
Poliovirus
interaction with mono- and polyclonal antibodies
neutralization and aggregation, 479
Poliovirus type 1
infectious plasmids
replication in simian cells, 490
measurement of mutation rates
comparison with influenza A virus, 377
Polyclonal antibodies
interaction with poliovirus
neutralization and aggregation, 479
Polyomaviruses
endogenous proviral units
restriction maps, 535
segregation patterns, 535
human BK virus
evolutionary changes i. deletion mutant, 260
large T antigens
immortalization of primary cells, 746
middle-T antigen
membrane-binding domain mutagenesis, 82
middle-T antigen sequences
site-directed mutagenesis, 384
transformation by tyrosines 315 and 250, 384
middle T tumorigenesis
complemented by simian virus 40 mutant, 655
monkey B-lymphotropic papovavirus
growth in T-lymphoblastoid cells, 531
VP-1 gene mutations, 531
T-antigen expression
cycloheximide inhibits protein synthesis, 761
negative regulation in embryonal carcinoma cells, 761
Poxvirus
vaccinia and Shope fibroma viruses
deletion analysis of cloned palindromic telomeres, 249
replication and resolution, 249
Prague Rous sarcoma virus
transforming protein
tyrosine phosphorylation, 73
Protein p53
comparison of normal and transformed cell lines
expression, 444
monoclonal antibody analysis, 444
Pseudorabies virus
cis functions
replication and cleavage-encapsidation, 318
defective interfering particles
replication and cleavage-encapsidation, 308
glycoprotein gIII gene
nonessential role for growth, 635
glycoprotein gp50
DNA sequence, 216
N-linked glycosylation, 216

Rabies virus
antibody response to vaccination
genetic control of resistance, 98
Rat model
herpes simplex virus

axoplasmic transport of doxorubicin, 242
persistence in ganglionic cells, 242
Reassortant viruses
lymphocytic choriomeningitis virus
pathogenesis, 363
role of interferon, 363
polygenic control of virulence
La Crosse virus, 1
reovirus type 3 (Dearing)
pathogenesis of a variant strain, 90
Recombinant retroviruses
large T antigens of simian virus 40 and polyomavirus
immortalization of primary cells, 746
Reovirus type 3 (Dearing)
pathogenesis of a variant strain, 90
Resistance to rabies virus infection
antibody response to vaccination
genetic control of resistance, 98
Reticuloendotheliosis virus strain T
transformed lymphoid cells
expression in *Escherichia coli*, 120
localization of v-*rel* protein, 120
Retroviruses
Abelson murine leukemia virus
transformation of T-lymphoid cells, 434
AIDS-associated retrovirus
transfection with infectious molecular clone, 284
avian erythroblastosis virus
mutant v-*erbB* protein, 525
oncogenic transformation, 525
avian oncogenic *myc* alleles
structure and transforming function, 341
c-*myc* oncogene construction
tumorigenesis, 276
HTLV-III/LAV
expression of reverse transcriptase, 743
identification of *tat*III protein, 181
Mill Hill 2 and E26 leukemia viruses
chromosomal localization of transduced proto-oncogenes, 172
novel retroviruslike family in mice
isolation and characterization, 301
reticuloendotheliosis virus strain T
expression of *Escherichia coli*, 120
localization of v-*rel* protein, 120
visna virus neutralizing antibodies
mechanism of action and role in virus persistence, 37
v-*myb* molecular clones
expression, 267
v-*sis* oncogene
deletions in N-terminal coding region, 292
minimal transforming region, 292
Retroviruses, avian
avian sarcoma virus packaging requirement
role of conserved *cis*-acting sequence, 163
Rous sarcoma virus-related sequences in Japanese quail
characterization, 354
Retroviruses, human
full-length endogenous sequences
amplification and chromosomal dispersion, 545
characterization, 545
Retroviruses, mammalian
Moloney murine leukemia virus
analysis of *pol* gene products, 328
antisera against *E. coli* fusion proteins, 328
RNA, bottom component
cowpea mosaic virus
proteolytic processing sites, 50
RNA patterns
human reassortant rotaviruses
serological characterization, 510
RNA replication
vesicular stomatitis virus
properties of N-NS protein complexes, 751
Rodent cells
Epstein-Barr virus
nuclear protein 2 expression, 453
Rotaviruses
analysis of human reassortants
serological characterization, 510
Rous sarcoma virus
deletion mutants
activity of *src*-specific monoclonal antibodies, 755
localization of conserved and nonconserved epitopes, 755
retrovirus-related sequences in Japanese quail
characterization, 354
transformation-defective deletion mutant, 556
c-*src* sequence transduction, 556
transforming protein
phosphorylation, 73
serine 17 phosphorylation, 73

Saccharomyces cerevisiae cells
hepatitis B virus
core antigen expression, 176
Scrapie-associated fibrils
antigenic relationships of protease-resistant proteins
comparison of strains, 676
Sendai virus
HN and F_0 glycoproteins
immunoreactivity changes, 132
Shope fibroma virus
deletion analysis of cloned palindromic telomeres
replication and resolution, 249
Simian cytomegalovirus
glycoproteins
lectin-binding properties, 703
sensitivities to glycosidases, 703
Simian sarcoma virus
v-*sis* oncogene
deletions in N-terminal coding region, 292
minimal transforming region, 292
Simian virus 40
cellular proteins that bind specifically to small t
construction of adsorbents, 692
isolation, 692
large- and small-tumor antigen
early and late gene expression, 619
expression in mammalian germ cells, 619
large T antigens
immortalization of primary cells, 746
p53 cDNA clone
identification, 574
large T-antigen–p53 protein complex, 574
T-antigen-negative tumor cells
immunologic selection for, 628
transformation, 628
T-antigen transport-defective mutant
complementation of polyomavirus middle T, 655
viral capsid protein
DNA-binding properties, 740
Subacute sclerosing panencephalitis
defective measles virus genes
persistence in brain tissues, 472

Temperature-dependent alterations
herpes simplex virus
antigenic variation in glycoprotein B, 142
monoclonal antibody-resistant mutants, 142
Temperature-sensitive mutant
Moloney murine leukemia virus
localization of neurovirulent determinants, 59
Temperature-sensitive O45 mutant
vesicular stomatitis virus
intracellular conversion of glycoprotein, 210
Terminal sequences
human cytomegalovirus strain AD169
structure and heterogeneity, 591
Thioredoxin gene
bacteriophage T4
nucleotide sequence and overproduction, 759
Transcription termination
adenovirus
mapping RNA termination regions, 112
Tumor antigen
polyomavirus expression in embryonal carcinoma cells
cycloheximide inhibits protein synthesis, 761
negative regulation, 761
polyomavirus middle T
complementation by simian virus 40 mutant, 655
simian virus 40
early and late gene expression, 619
expression in mammalian germ cells, 619
selection for T-antigen-negative tumor cells, 628
transformation, 628
simian virus 40 and polyomavirus
immortalization of primary cells, 746
simian virus 40 small t
construction of adsorbents, 692
isolation of specific binding proteins, 692
Tyrosine kinase activity
polyomavirus middle-T antigen
transforming ability, 384

Vaccinia virus
deletion analysis of cloned palindromic telomeres
replication and resolution, 249
herpes simplex virus glycoprotein D
expression, 506
Varicella-zoster virus
homology to herpes simplex virus type

1 glycoprotein C
glycoprotein gene DNA repeats, 660
Vesicular stomatitis virus
fusion activity of glycoprotein
oligonucleotide-directed mutagenesis, 486
N and NS proteins form multiple complexes
properties in an in vitro system, 751
temperature-sensitive O45 mutant
characterization, 210
intracellular conversion of glycoprotein, 210
Visna virus
neutralizing antibodies
mechanism of action and role in virus persistence, 37

Wound tumor virus
translational activity of viral transcripts
regulation of expression, 195